# Website Management and Quality Assurance for TFFIP Data

### **Investigators**

### Kathleen H. Fenton

Environmental Biologist/Webmaster Fisheries and Wildlife Resources Group Bureau of Reclamation Denver, CO 80225 kfenton@.usbr.gov

#### Donald E. Portz, Ph.D.

Fisheries Biologist
Fisheries and Wildlife Resources Group
Bureau of Reclamation
Denver, CO 80225
dportz@usbr.gov

### Summary

The multi disciplinary research investigations performed for the Tracy Fish Facility Improvement Program (TFFIP) produce a large amount of data and information from several data acquisition systems, technical reports, and experimental data that need to be centrally managed and peer reviewed in a consistent manner. There is a clear need for communication and sharing of data between researchers from very different technical disciplines, as well as a need to provide web-based "storefront" for program (secured access) and public (open) access to data and reports.

The goal of the Tracy Research Website for TFFIP is to develop and implement new fish collection, holding, transport, and release technology that will significantly improve fish protection at major water diversions in the south Delta region of the Central Valley of California. The website serves as a compilation of and access point for photos, data, and research reports that are developed to meet the goals of the research program.

The following are Tracy Series Reports and Technical Bulletins that were published fiscal year 2009 and uploaded onto the website (as of 6/1/09):

Volume 42 – Wang, J. C.S. and R.C. Reyes. 2008. Early Life Stages and Life Histories of Centrarchids in the Sacramento-San Joaquin River Delta System, California.

Volume 13 – Revised and Expanded – Portz, D.E., D. Craft, B.B. Bridges, and R. Silva. 2009. *Guidelines for Authors of Tracy Series Technical Reports*.

Tech. Bul. 2008-1 – Boutwell, J.E., D. Sisneros, and D. Craft. 2008. *Standard Operating Procedures for Using the Traveling Screen Within the Secondary Channel to Remove Water Borne Debris, Tracy Fish Collection Facility, Tracy, California.* 

Tech. Bul. 2008-2 – Z.A. Sutphin. and B.J. Wu. 2008. *Changes in Water Quality During Fish-Hauling Operations at the Tracy Fish Collection Facility*.

Tech. Bul. 2008-3 – Reyes, R.R. 2008. Embryogenesis and Ammocoete Morphological Development of the Pacific Lamprey (Entosphenus tridentatus Gairdner, 1836) from the American River, California.

### **Problem Statement**

In conjunction with the TFFIP, there is an ongoing need to provide: (1) archival storage and controlled access for TFFIP researchers to all continuously collected data, research series reports, and data from research reports; (2) public information access via a world wide web site; (3) a way for TFFIP researchers, TFCF operators, and TTAT members to compare and analyze data from different sources and disciplines by querying a web-based relational data base; and (4) a structure for quality assurance review and validation of data generated from experiments and data acquisition systems.

## **Goals and Hypotheses**

Goals:

1. Update and modify program information, upload 2010 study plans, and new PDF reports as they become available. The following are Tracy Reports currently in process and planned for FY 2010 Publication which will be posted to the website:

Volume 43 – Zehfuss, K., D. Sisneros, J.E. Boutwell, and B. Bridges. 2009. Evaluation of Various Mechanical Debris Systems for the Removal of Naturally Incoming Debris at the Tracy Fish Collection Facility, Tracy, California.

Volume 27 – Hanna, L., R. Bark, M. Bowen., B. Mefford, P. Johnson, and R. Lopez. 2009. *Passive Separator Fish Sorting Studies for Tracy Fish Salvage Facilities*.

Volume 44 – Karp, C. and J. Lyons. 2009. Evaluation of the Holding Tank on Delta Smelt (Hypomesus transpacificus).

Volume 45 – Bark, R., W. Frizell, and B. Wu. 2009. *Sonic Tag Tracking Studies of Striped Bass Passage at the Tracy Fish Collection Facility.* 

Volume 46 – Portz, D., C. Crocker, and C. Hueth. 2009. *Holding-Duration-Associated Stress of Green Sturgeon (Acipenser medirostris) at South Delta Fish Salvage Facilities, California.* 

Volume 47 – Bowen, M. and C. DeMoyer. 2009. Delta Smelt Salvage Efficiency: Effects of Primary Channel Velocity and Predator Removal.

Volume 48 – Hanna, L., C. Karp, and J. Lyons. 2009. *Vertical Sorting of Fish Using a V-shaped Separator*.

Volume 49 – Karp, C. and J. Lyons. 2009. Evaluation of Fish Behavior Upstream and Downstream of the Mitten Crab Traveling Screen at the Tracy Fish Collection Facility.

Technical Bulletin 2008-4 – Kubitschek, J. and C. Karp. 2009. *Tracy Experimental Laboratory Facility Investigations: Leaky-Louver Development.* 

- 2. Augment photo galleries to include more images.
- 3. Incorporate site traffic reports, within the limits of Bureau of Reclamation (Reclamation) website policy. This information can be analyzed to pinpoint strengths, weaknesses and potential areas of improvement of the website design and structure.
- 4. Coordinate with Reclamation Webmaster to maximize site potential.
- 5. Update and perform quality check of website on a regular basis to maximize currency and minimize errors, broken links, etc.
- 6. Check website and update for compliance with Visual Identity and annual site certification requirements.

#### **Materials and Methods**

This activity will follow all Reclamation Web Standards and Directives as detailed on the Reclamation intranet: http://intra.usbr.gov/web/.

### **Coordination and Collaboration**

The Tracy Webmaster coordinates with TFFIP Manager and Tracy Series Editor on updating of information that is posted on the website including data, images, and Tracy Series Volumes and Technical Bulletins. The Tracy Webmaster also works with and coordinates with the TSC and overall Reclamation webmasters and IT personnel to insure that the Tracy website meets all required standards. In addition, the Tracy Webmaster manages inquiries from the public through the website which can either be handled directly or passed on to the appropriate resource for resolution.

## **Endangered Species Concerns**

None

### **Dissemination of Results (Deliverables and Outcomes)**

We anticipate a completely updated website and the timely posting of all new Tracy Series Volumes and Technical Bulletins. The website will display evidence of current and regular updates. All required certification and standards will be completed and maintained (Section 515, Quality of Information and Section 508, Accessibility).

### **Literature Cited**

- Bureau of Reclamation. 2008. *Reclamation Web Publishing Manual*. http://intra.usbr.gov/web/webguide.html. (July 2009).
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- Bureau of Reclamation. 2006. *Visual Identity Web Template Guidelines*. http://intranet.usbr.gov/vip/IV-web.html. (July 2009).